

Comparisons of Job Characteristics

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Home Appliance Repairers (49-9031)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 69

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Home Appliance Repairers (49-9031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Customer and Personal Service	11.3	16.0	15.0	0	Current knowledge level may be sufficient
Sales and Marketing	5.2	11.8	8.6	<<	Extensive education and/or training may be required
Mechanical	6.8	11.0	20.1	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Home Appliance Repairers (49-9031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	12.7	13.5	0	Current skill level may be sufficient
Troubleshooting	4.5	11.9	13.3	>	Skill level is likely sufficient
Quality Control Analysis	5.9	11.8	11.2	0	Current skill level may be sufficient
Equipment Maintenance	3.5	11.1	12.3	>	Skill level is likely sufficient
Operation Monitoring	6.6	11.0	11.4	0	Current skill level may be sufficient
Equipment Selection	3.3	8.7	9.4	0	Current skill level may be sufficient
Installation	1.7	7.0	12.6	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 92			
Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Home Appliance Repairers (49-9031)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	11.5	10.7	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	11.2	10.8	0	Current ability level may be sufficient
Visualization	7.5	11.0	12.4	>	Current ability level is likely sufficient
Hearing Sensitivity	5.6	10.6	10.0	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.4	9.0	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.8	10.3	0	Current ability level may be sufficient
Extent Flexibility	4.8	9.7	11.8	>	Current ability level is likely sufficient
Trunk Strength	5.7	9.0	9.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 95
Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Home Appliance Repairers (49-9031)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Apply cleaning solvents	41	
Assemble and install pipe sections, fittings, or plumbing fixtures	71	
Conduct performance testing	66	
Conduct tests to locate mechanical system malfunction	71	
Cut, bend, or thread pipe for gas, air, hydraulic, or water lines	84	
Determine installation, service, or repair needed	58	
Diagnose mechanical problems in machinery or equipment	65	
Estimate time or cost for installation, repair, or construction projects	54	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Install electronic equipment, components, or systems	62	
Install or replace meters, regulators, or related measuring or control devices	66	
Install/connect electrical equipment to power circuit	57	

Lubricate machinery, equipment, or parts	59
Maintain or repair industrial or related equipment/machinery	39
Measure and mark reference points or cutting lines on workpieces	66
Move or fit heavy objects	8
Observe or listen to machinery or equipment operation to detect malfunctions	81
Obtain information from clients, customers, or patients	40
Perform safety inspections in industrial, manufacturing or repair setting	32
Position, align, or level machines, equipment, or structures	74
Pressure test piping system or equipment for leaks	89
Read blueprints	10
Read schematics	34
Read specifications	23
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use basic carpentry techniques	62
Use basic plumbing techniques	72
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2
Use knowledge of metric system	39
Use oral or written communication techniques	1
Use pipe fitting equipment	80
Use precision measuring devices in mechanical repair work	61
Use precision tools in electronics repair	71
Use pressure gauges	76
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)
Associated Occupation: Home Appliance Repairers (49-9031)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.